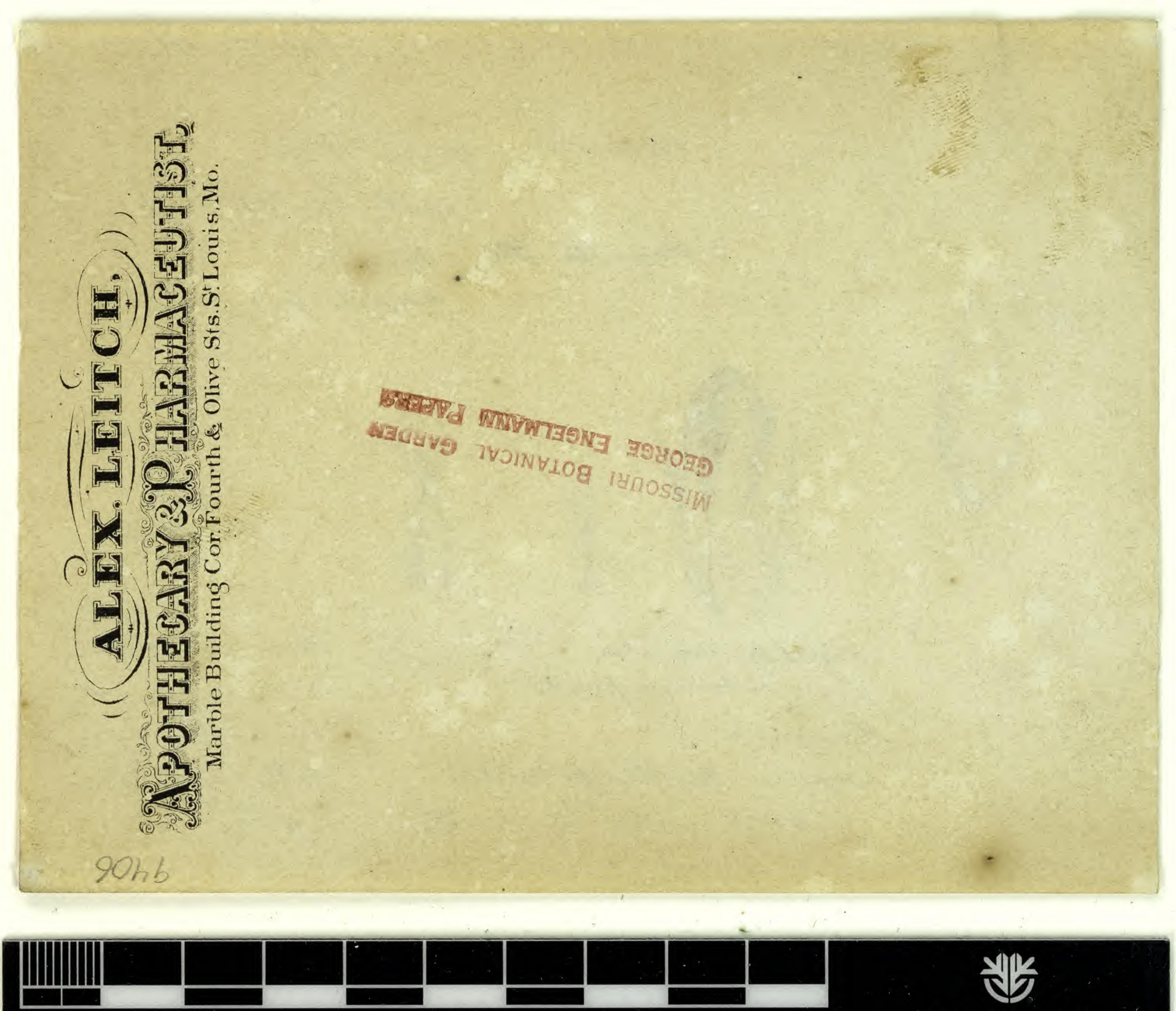
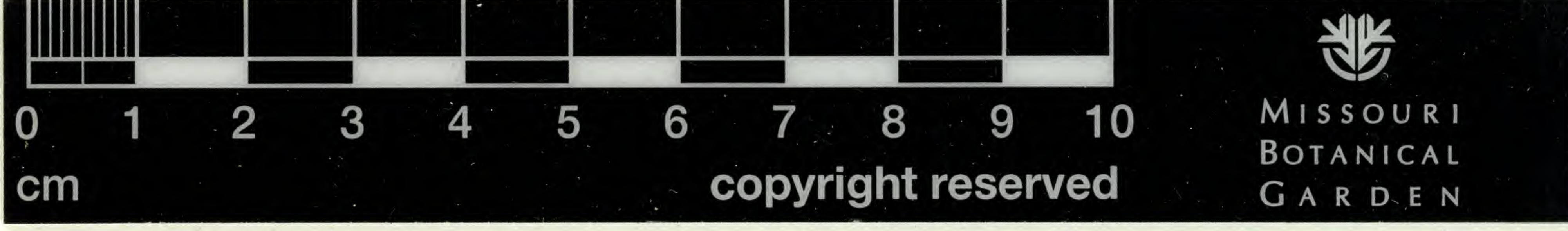


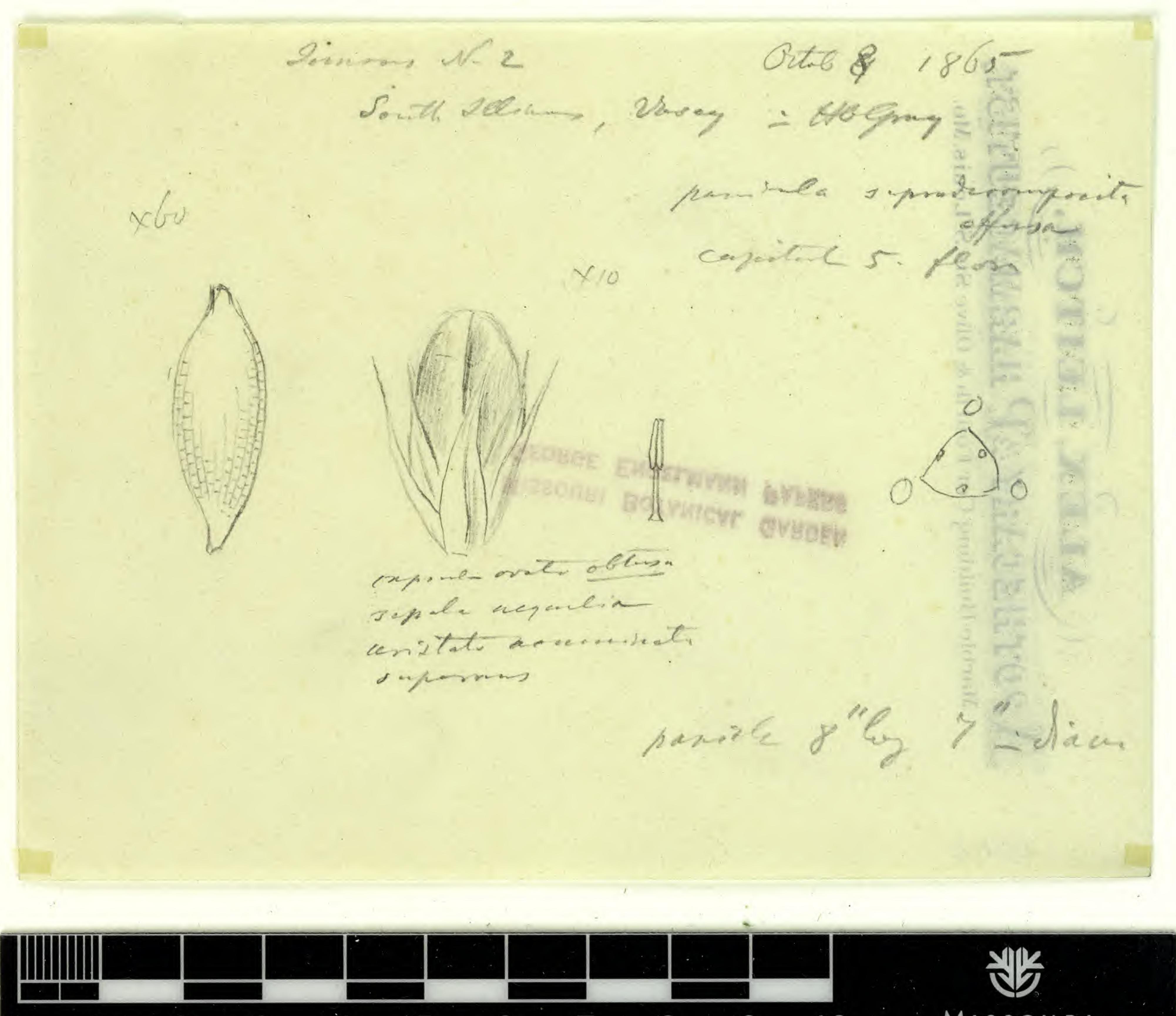


Sept 5 - Hos (Beniston, geger 1842 capit 6-8/Com) Angesty Fel. Missel. capit. 6-7 for Brankton plant see interrora puento is only in flower immer Legels a Congora capsul ovato prisuletin Cittle Congra Than arista, ner mucronala. - anter one

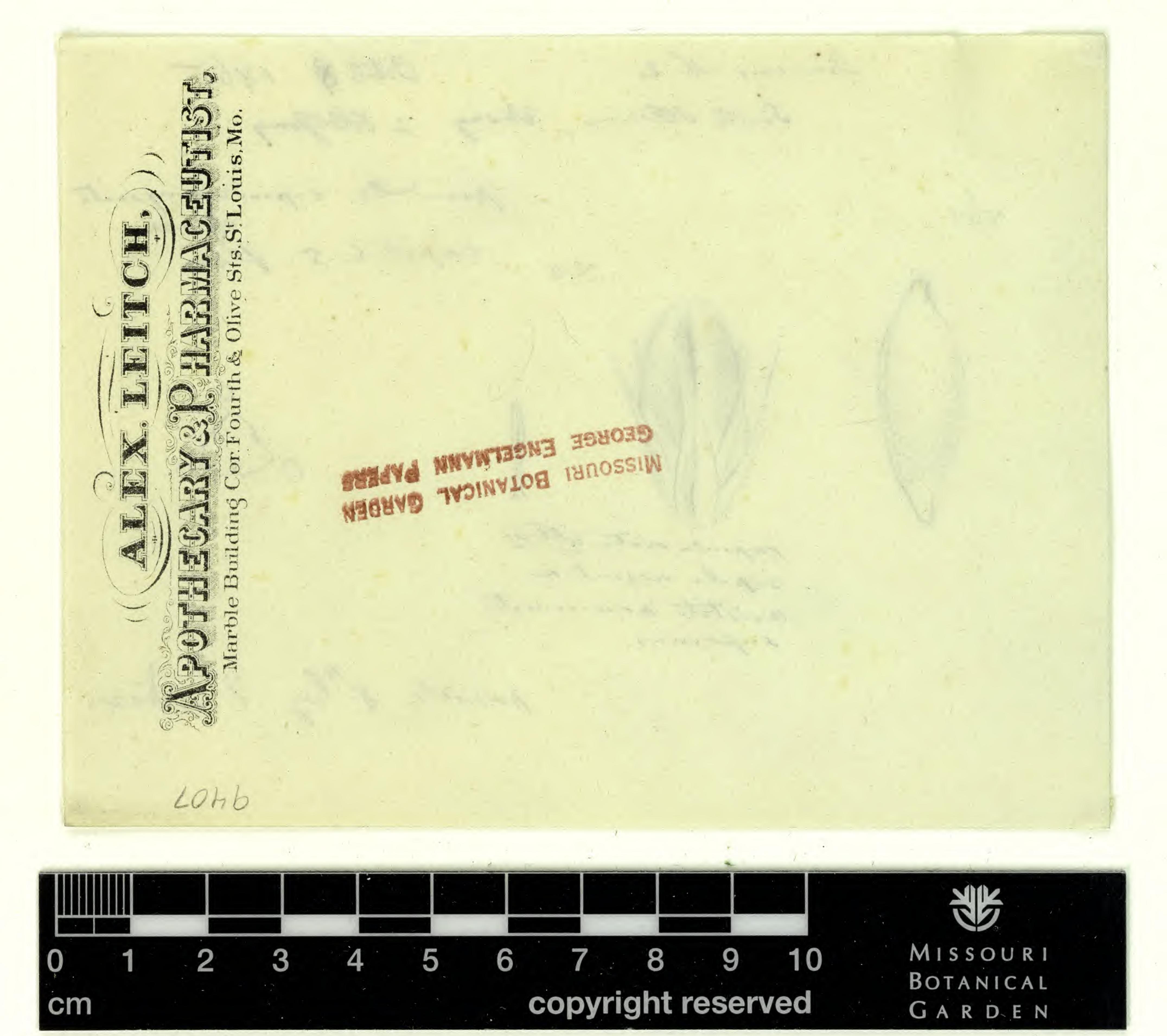


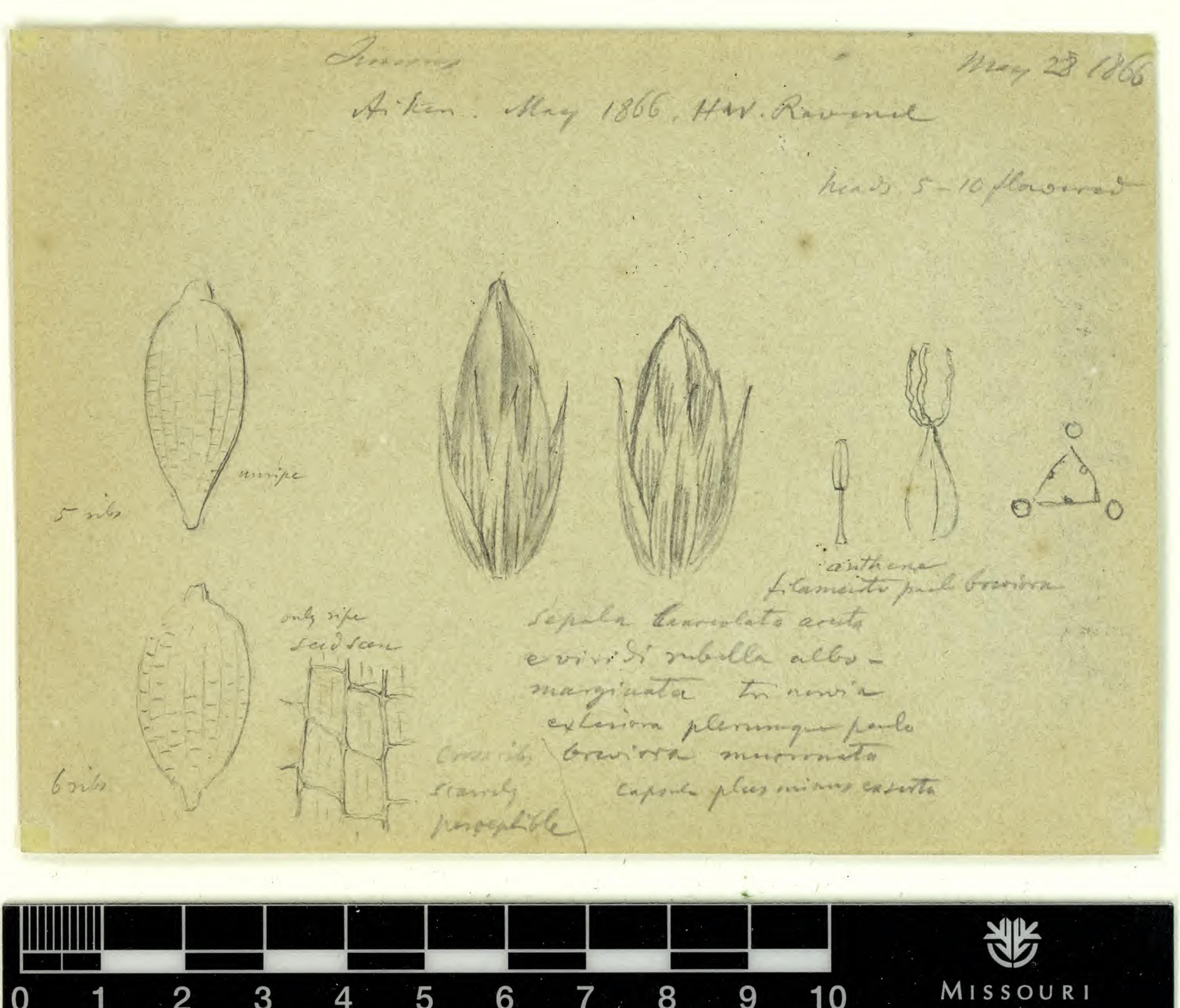




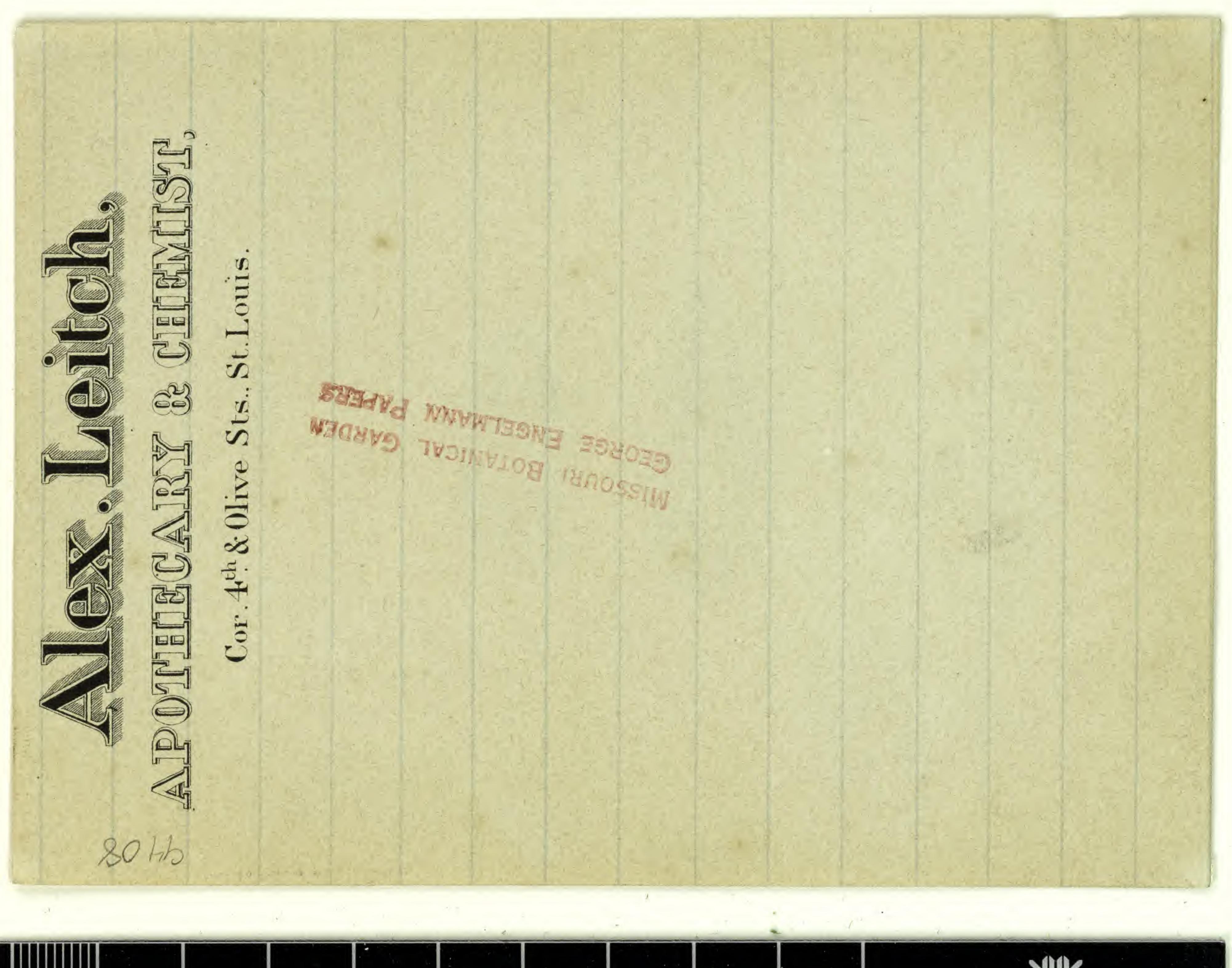






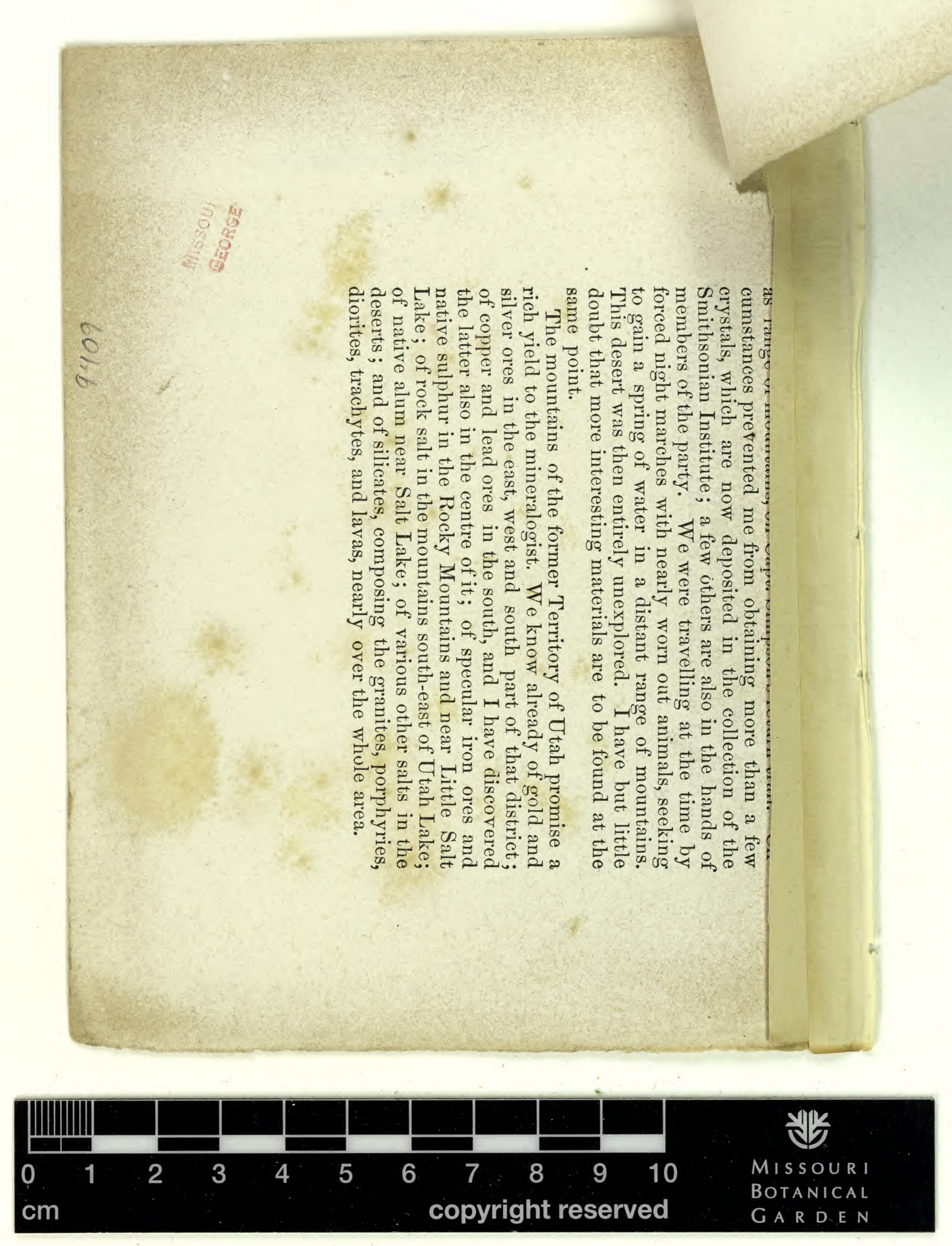


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winch, nowever, may be due to weathpittings, OIL rugæ

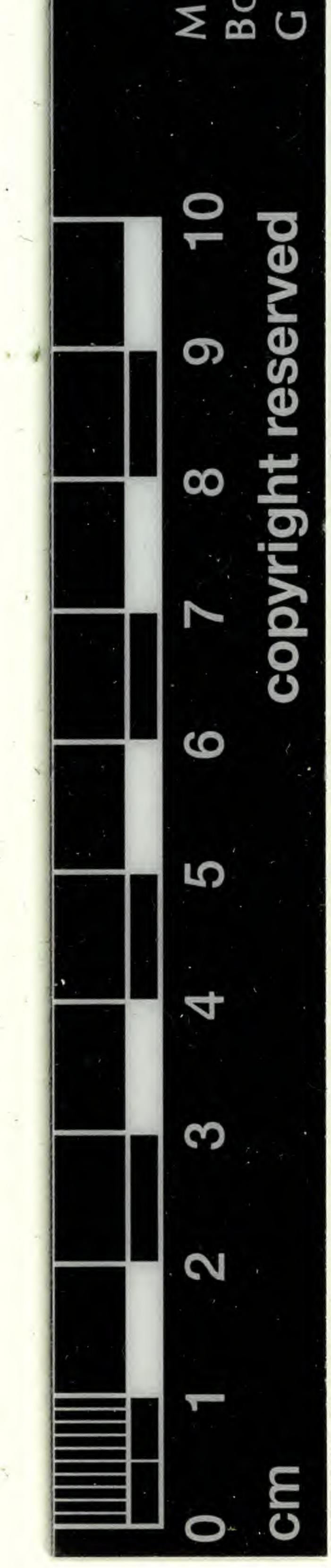
inch; wlau Length, 0.20 of an nus Kirkwoodensis ensions.

also its by width, v.t is distinguished excavated base. Elæacrinus Kirkvooden emites) melo, from which

smaller size and less deeply excavated base. It ales a higher geological position.

urs in the St. Louis Limestone (Carboniferous) on the railroad near Kirkwood, St. Louis-county, Missouri.

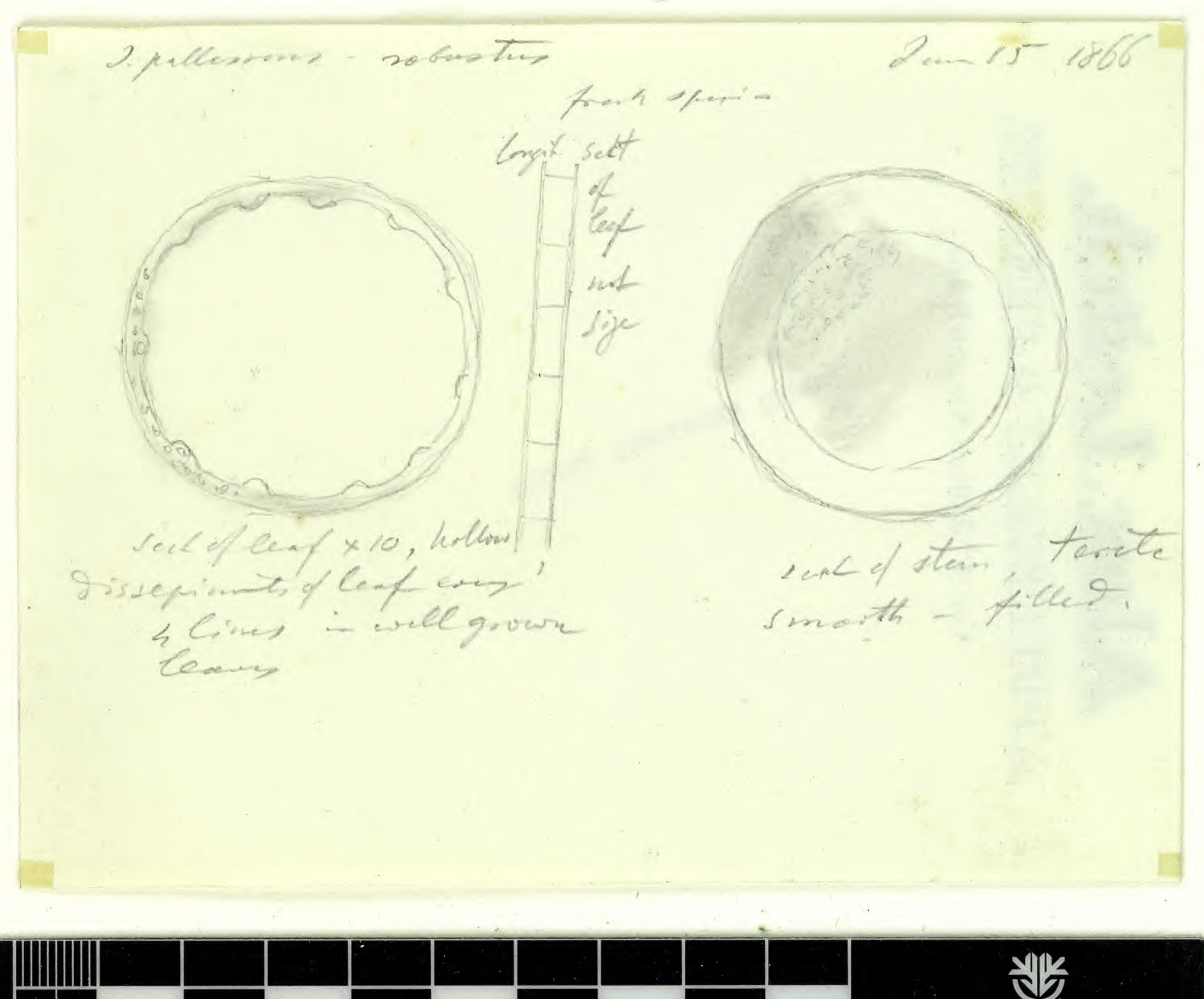
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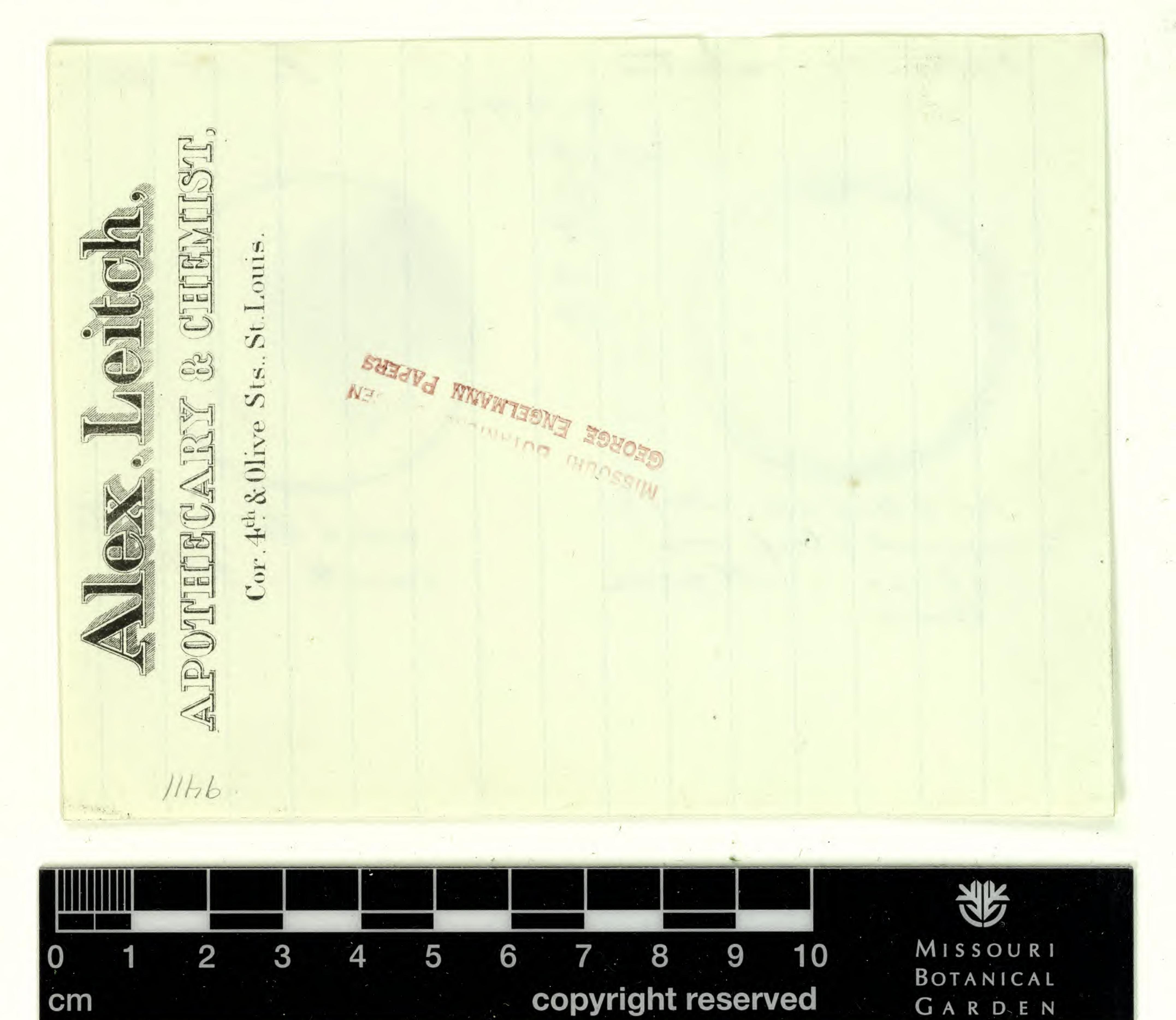
same crystals, cumstances prevented crystals, which are n members of the party. to forced night This desert doubt that Smithsonian gain a point. Spring more was marches Institute then entirely unexplored. interesting materials are of now water 9. deposited 0 few others are in e were nearly 2 obtaining nothe distant range worn out travelling also to be found more collection animals, seeking in the at have of the than mountains. orall. but hands time of at 2 little Cirfew the the by

rich yield diorites, of the of native sulphur silver ores deserts; Jake; The copper and native alum latter also of mountains trachytes, and rock salt in to in the east, west the mineralogist. of in In lead ores near Salt silicates, the centre of the Rocky Mountains of the former Territory ineralogist. We know and the lavas, in composing mountains Lake; of t and nearly it; south, and it; of speci south various other south-east of Utah the the granites, porphyries, over the whole area. specular nd I have and near paiready of g of Utah promise ilready of gold an ear Little salts of gold and nat district; discovered ores in the Lake; Salt and

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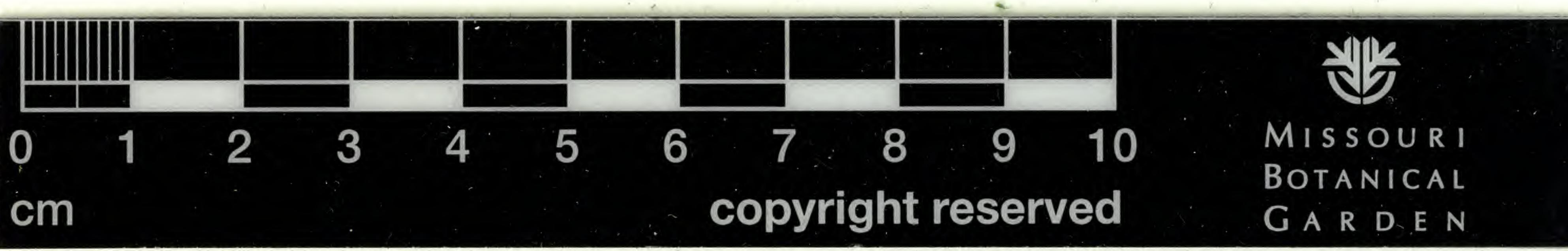




30-40 "high cospilare -Tourk green - pomirle 7-10 inher langer course spathe 3. 12 "long sheathing for 14" were i smaller paniely Jerond - 7,-1 inch los - all others more bruttike, gully smillingsom 3- 12 lines the Court 15 brankles, again alighed only the organ & bear'ng single heads pentet hear of 5 flowers -Hurten primas axis long 23 gextly posts 33 5 planty Contain 13 lowest branches of panile nearly & Copposite the following ones in & arrangement.

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I. palles rens var debiles V. Debilling A. Jang Mean

TRANS.

HT

Topaz in Utah. By HENRY ENGELMANN.

They were perfectly colorless, toped, and of great lustre. They in the direction of the measured screet fect. During my explorations in Utah as Geologist of dition under Capt. J. H. Simpson, Top. Eng'rs. U 1858 and 1859, I observed some remarkably beau tale of Tonaz amono some detritus of trachytic (according to Prof. Rose's observed reat lustre. They were all short them measured scarcely one third of the basal cleavage, which was led ten modifications: all crystals Prof. Rose's designation) detritus of trachytic porpess. transparent, sharply remarkably beautiful all crystals short con was highly exhi

a few 18 crystals could not ascertain common lex. No tests were in i infusible before the blowpipe; and when strongly he coated with small blisters, but does not show any check. It exhibits the reactions of fluorine, aluminator of the coated with small blisters. in only none examined of the whether they were hemihedral, regar made 01 0 for other elements, nor pyro-electricity and and

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MISSOURI ENGELMANN PAPERS

GEORGE

-NEW PALEOZOIC FOSSILS.

LEACRINUS KIRKWOODENSIS, n. sp.

Body very small, subglobose, a little longer than wide, flattened above and below. Basal pieces very gently concave, with their edges on a level with the plane of the under side. Radial pieces (fork pieces) reaching to the base and occupying more than four fifths the entire length of the body, narrow below and widest in the middle, sides gently arched. Interradial pieces subdeltoid, very prominent towards the apex, much longer than wide, obtusely angulated below, acutely angulated above, and notched on either side a short distance below the summit. Pseudo-ambulacral areas extending from base to summit, narrow, deeply impressed; sides nearly parallel; pore pieces amounting to about fifty in each field. A longitudinal fissure or slit extends from the central summit opening downwards, separating the pore pieces of one side from their fellows of the opposite for the distance of about one fifth the length of the field, thence their inner edges are united in the median line to the base. Pseudo-ambulacral spaces lanceolate, sloping gently from their edges to the sutures. Ovarial aneatures eight, very minute, situated at the notches of the

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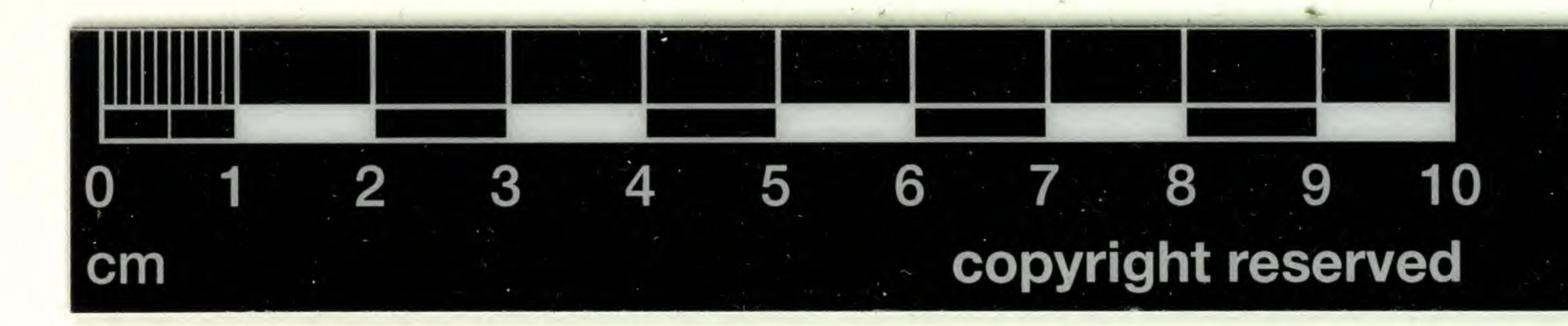


LEITCH & CORLIES,

South-west Corner Fifth and Market streets.

SERENAL MANNATERNE ISTOSSIN

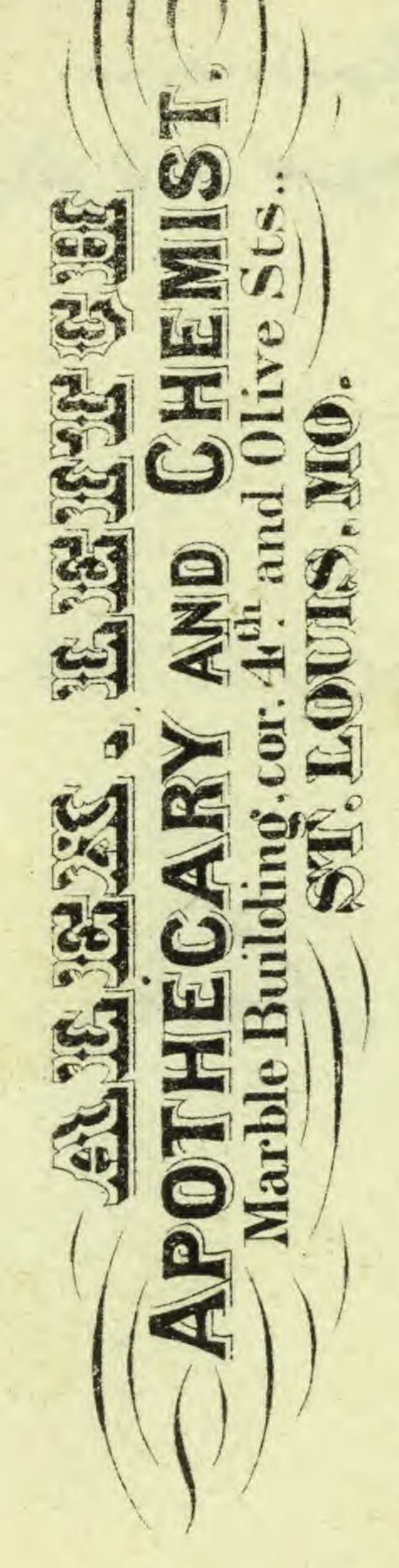
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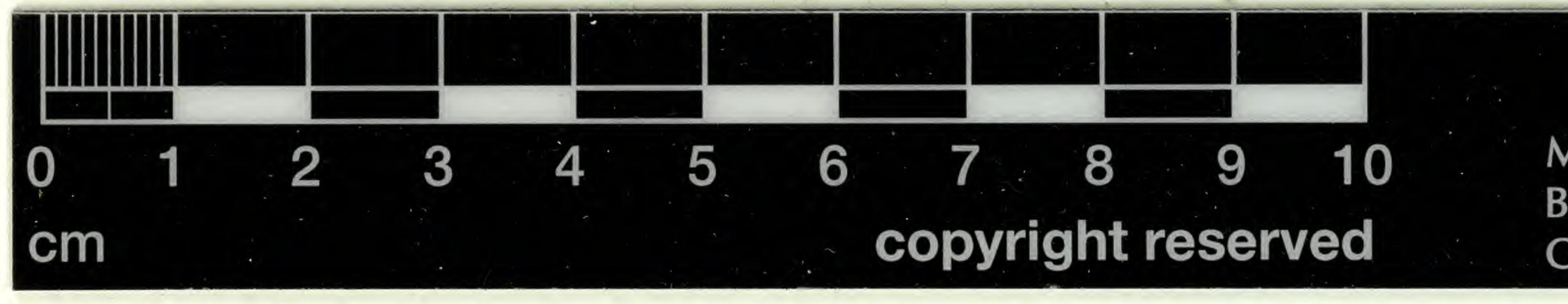


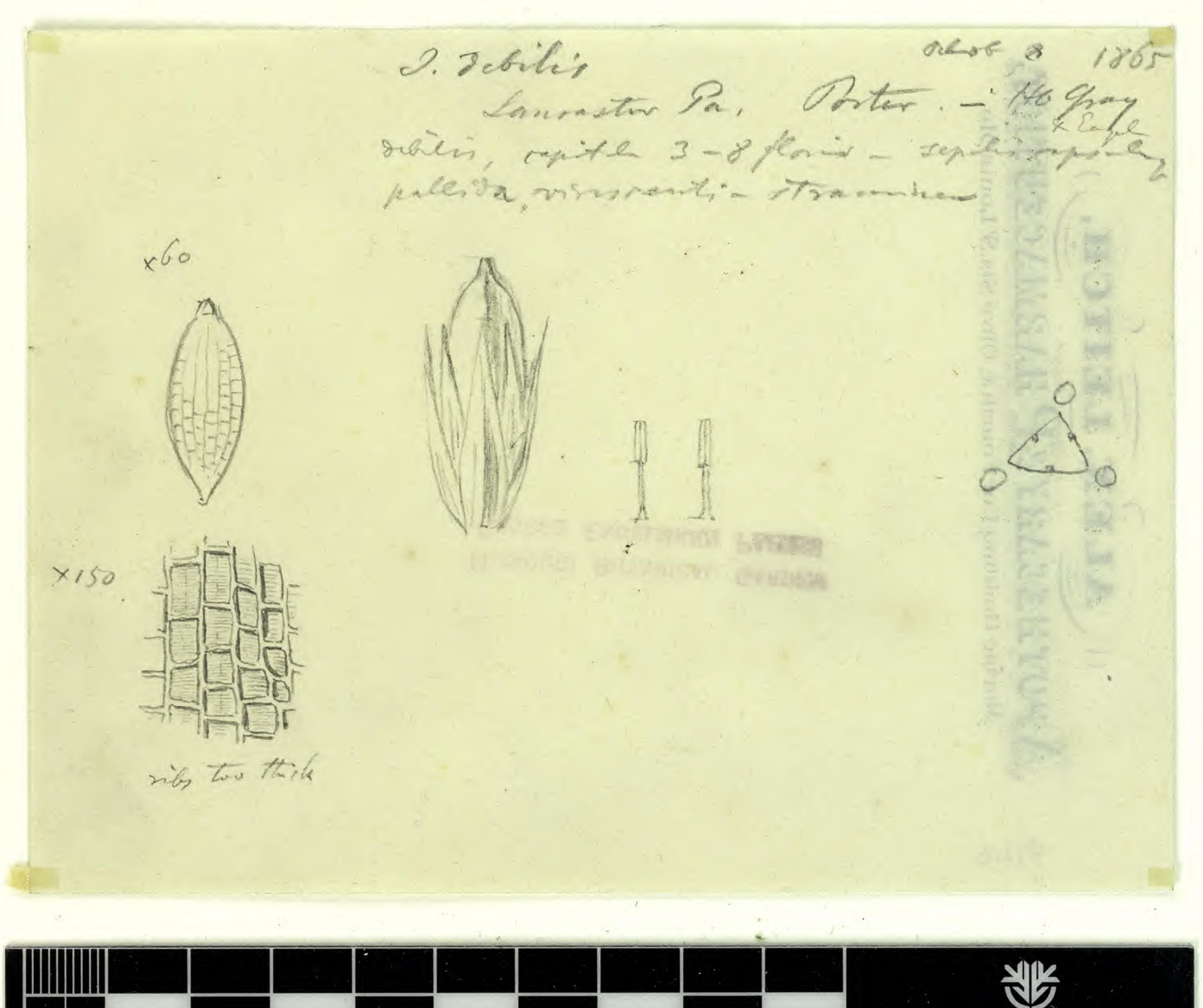


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pamira pri leta - rapit 5-8 flow. X60 and of the Call Sepento - content or Little Congres thomas in









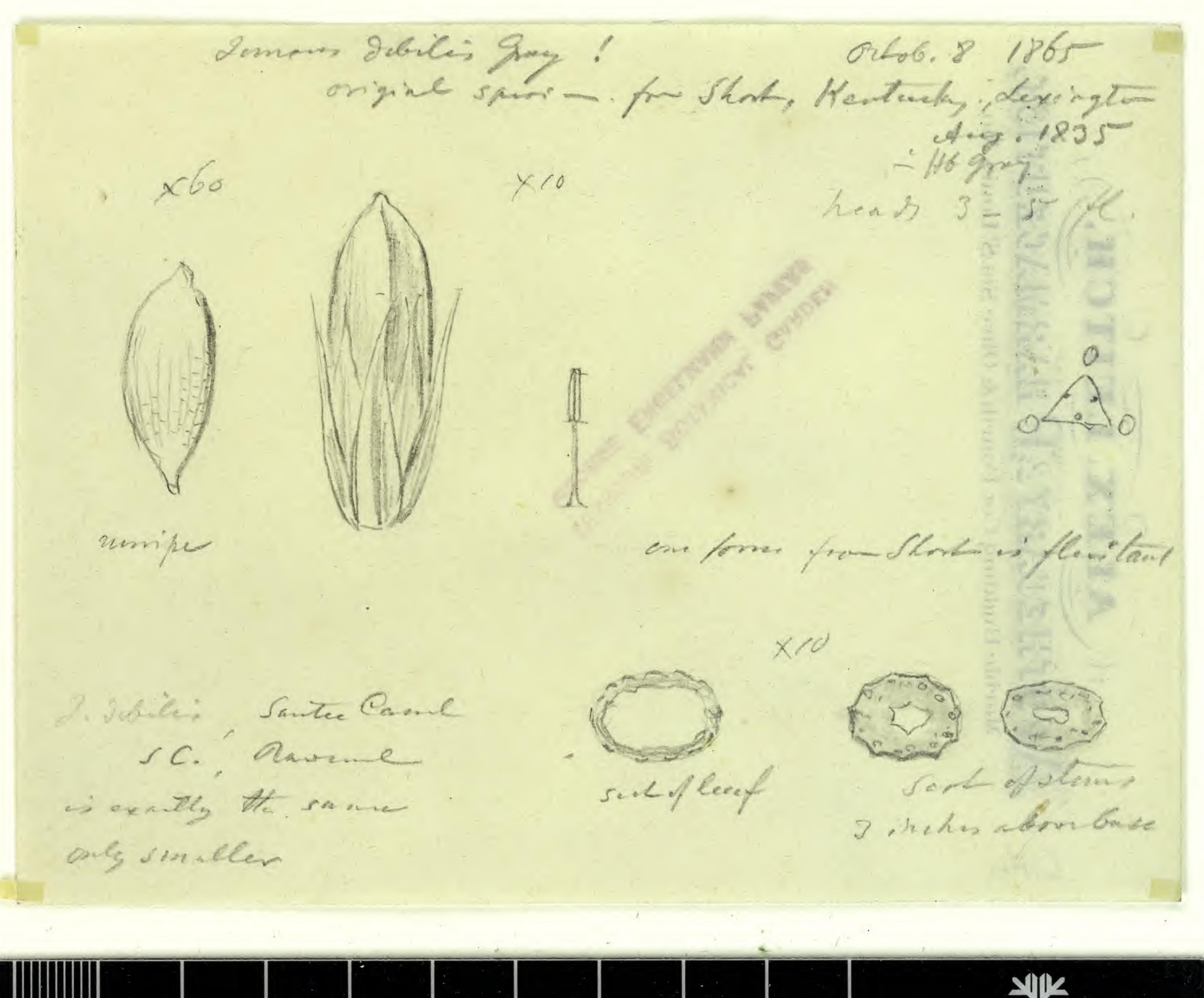


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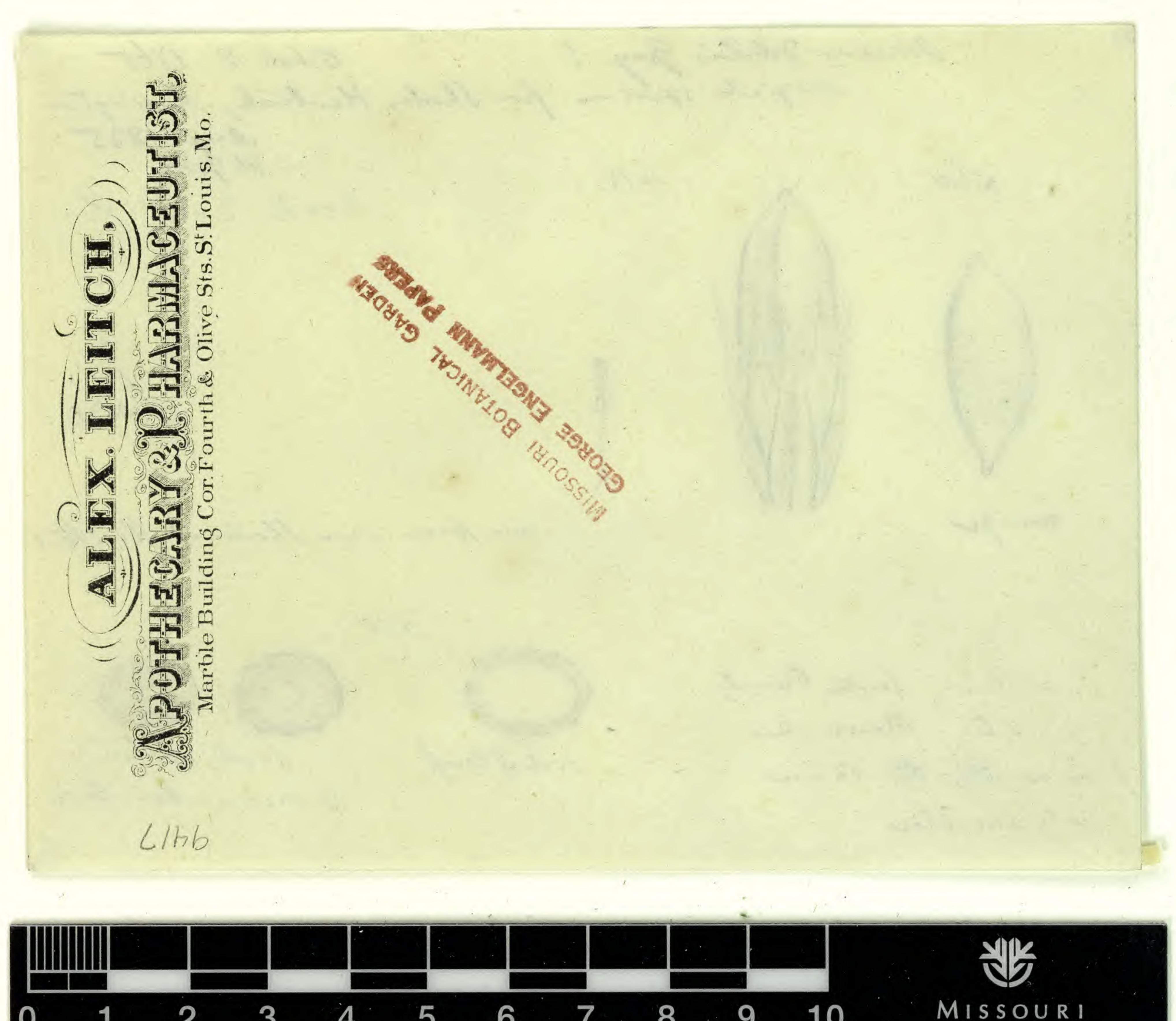
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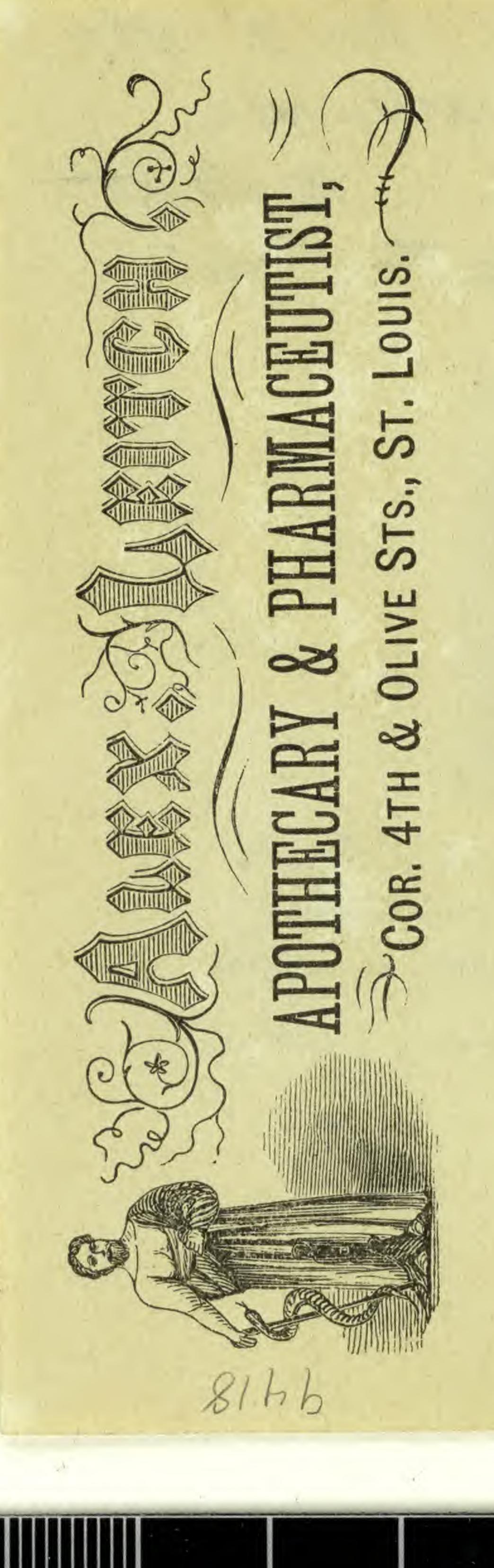








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GEORGE ENGELMANN PAPERS MISSOURI BOTANICAL GARDEN



Org, Warrior Ridge, Huntington Co Pan Th. C. Parter Aug 1863



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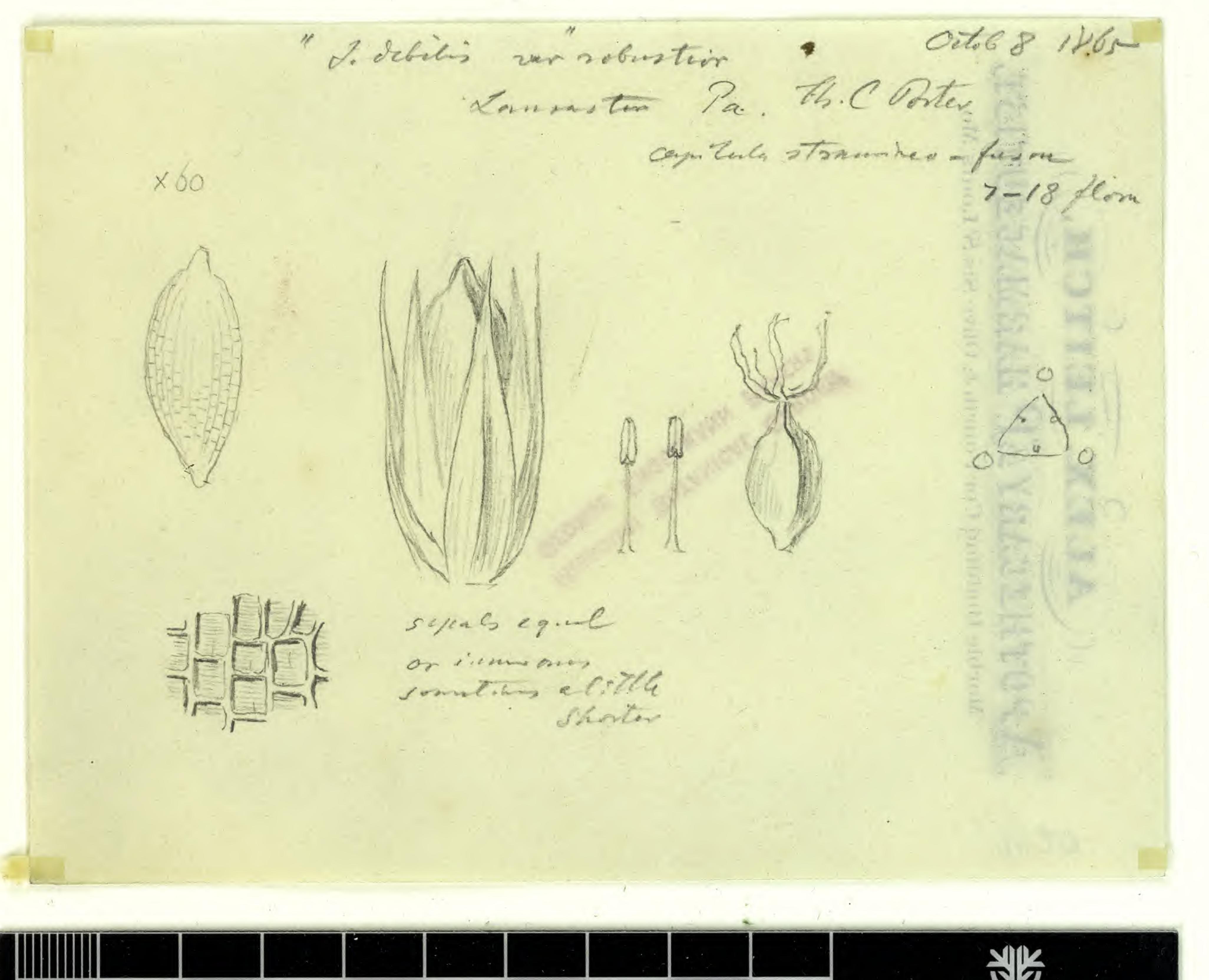
Marble Building, Cor. Fourth and Olive Street

SH. LOURIES, MO.

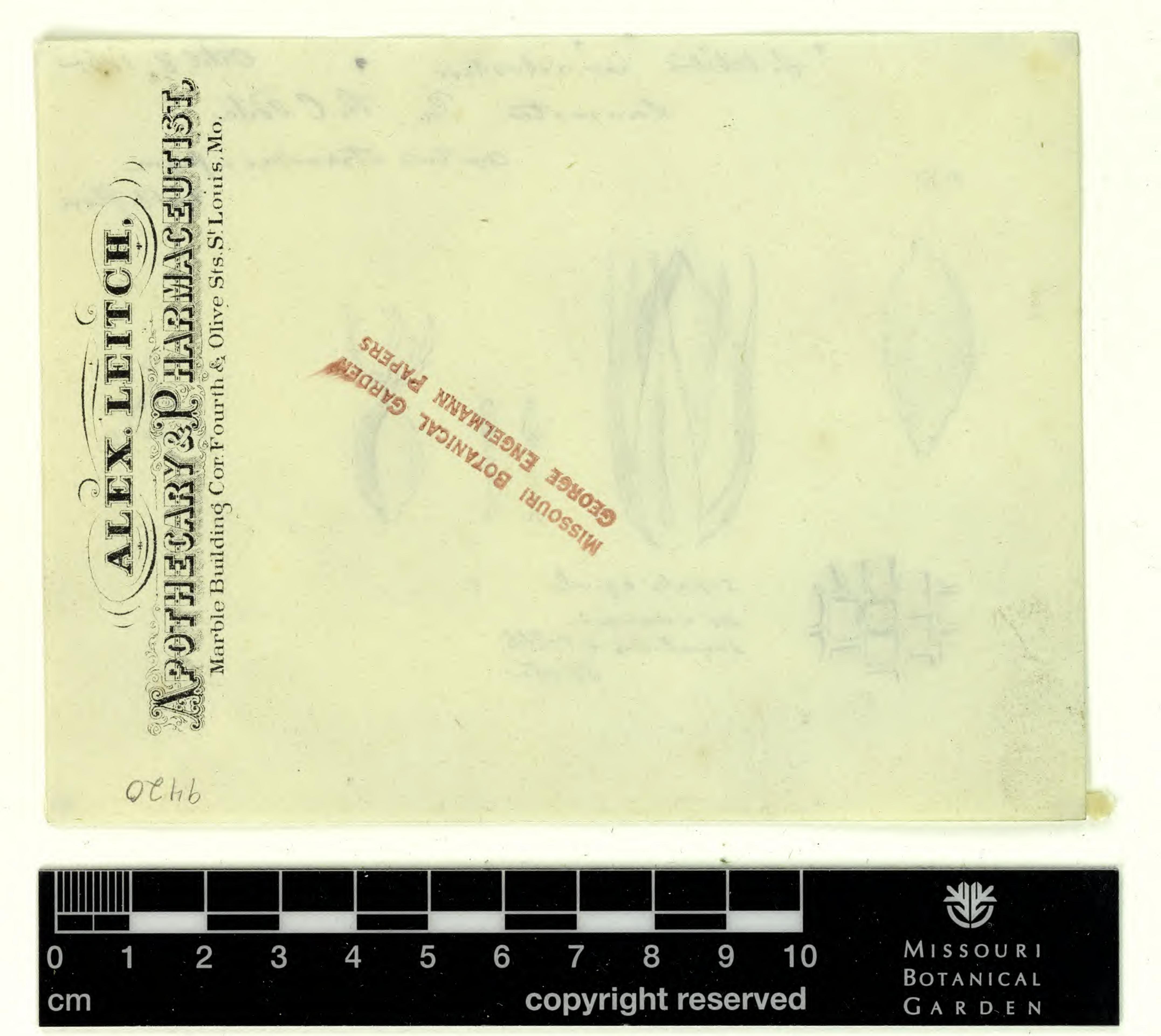
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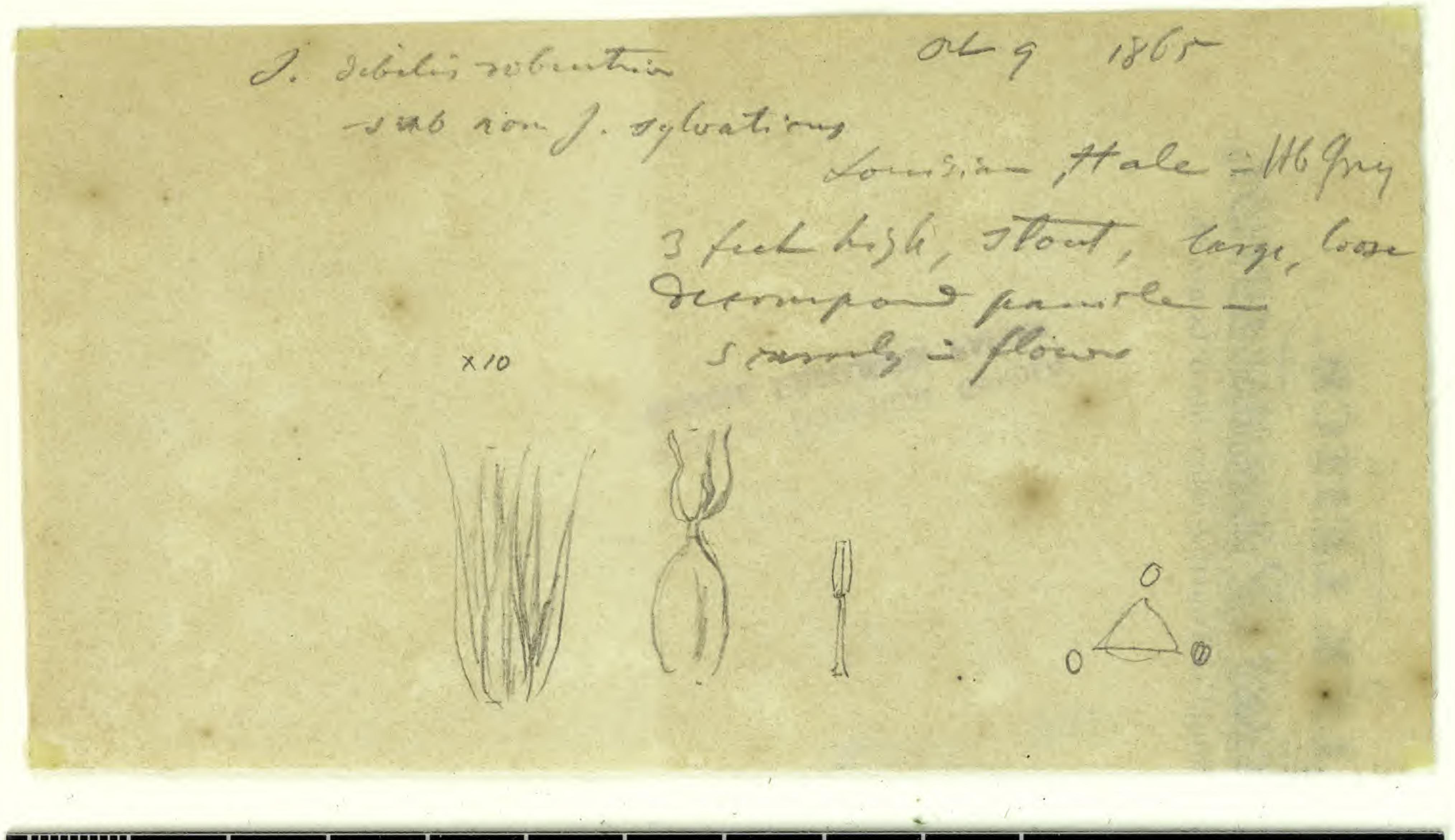




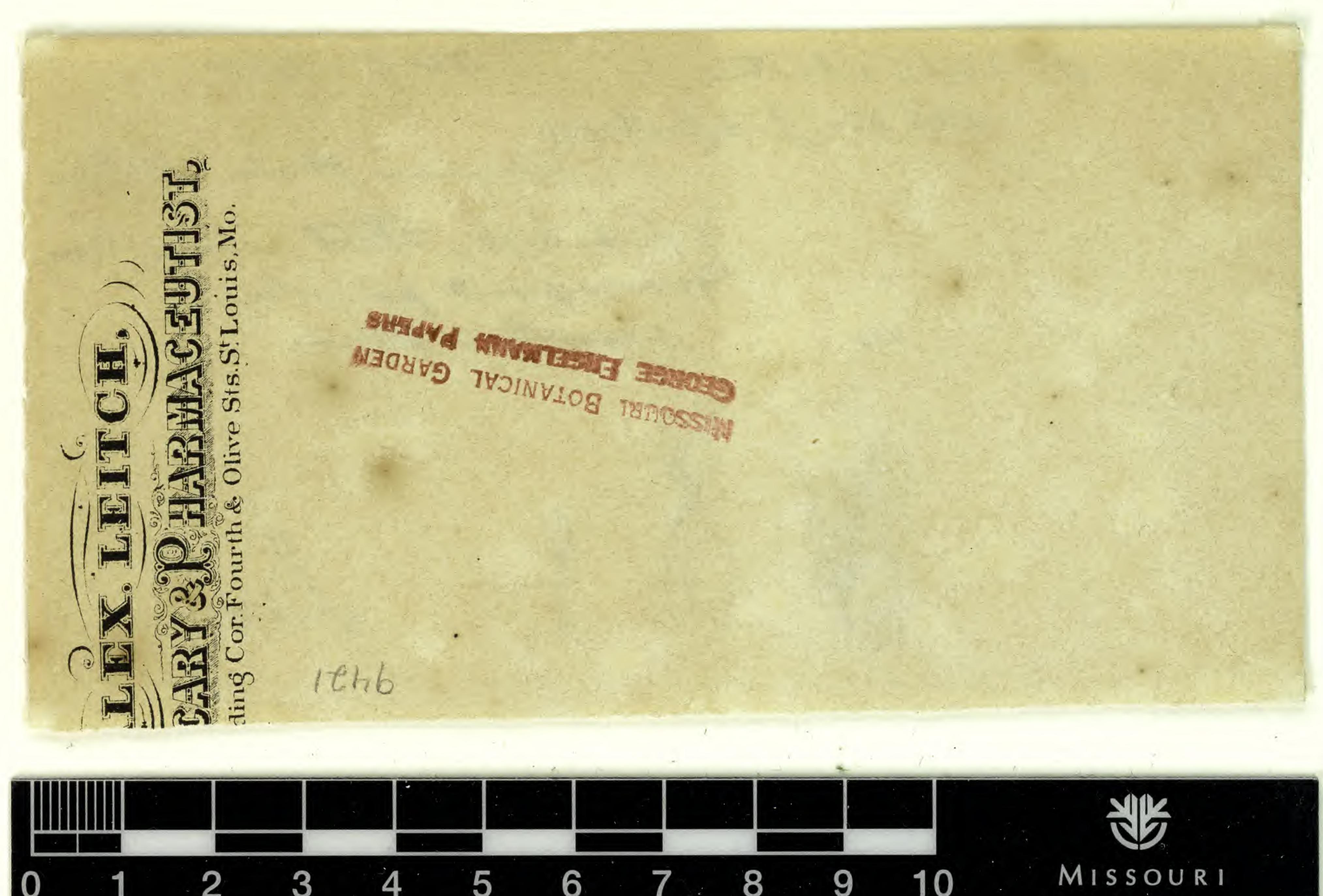














I pallesiens var hiffusissimus I Diffusissimus Auckley

118

42

December, groups. differences in greater number degrees that ladder. instance, was year general features Was March, and These triffing irregularities higher unusually are apparent in Computing ide the those we descent and July The temperature find than twelvemonths which electrici in thunderstorms in 1862 high, diminishi of distribution that of ly is the and the m both years, onths which give the highest iminishing January, April lowest instead the lowest rainy, in took February, relative each interruptions may of that its and we place thus year into electricity humidity, each 1862, is somewhat relative may electricity. of January Septemb throug about hum

The aggregate monthly mean of 71.5 degrees of electricity in 1861 and 74.6 " " 1865.

While the second group gives 29.0 " " " 1865.

the months

of

both

years the

November

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Dec

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January, exhibit

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est electricity.

August,

September

group

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MISSOURI BOTANICAL GARDEN

VISLIZENUS-ATMOSPHERIC ELECTRICITY.

The appearance of negative electricity was connected in

	t thunder and lightning. without rain and without thun.		
	with thunderstorm with rains without with dry storms (v	der and lightnin with snow. with fog.	
No. times.	32 4 4	က (67
No. times.	230	4	78

VII. Relation of Rain and Snow to Electricity.

Rain without thunderstorm was accompanied

By no Electricity.	In 1862.	2
By no]	In 1861.	
Negative Electri-	In 1862.	21
By Negative city.	In 1861.	34
Positive Electricity.	In 1862.	1 1
By Positive city	In 1861.	7
		January

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